UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,675	12/28/2001	Harold Ray Hurst	60027.0095US01/BS00258	4603

39262 7590 05/09/2005	EXAMINER
BELLSOUTH CORPORATION P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903	CHOW, CHARLES CHIANG

ART UNIT	PAPER NUMBER
2685	

DATE MAILED: 05/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

		Application No.	Applicant(s)
Office Action Summary		10/035,675	HURST, HAROLD RAY
		Examiner	Art Unit
		Charles Chow	2685

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *13 December 2004*.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-22* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-22* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

        1.☐ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____.

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

Detailed Action

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 1-13, 16-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Sheridan et al. (US 6,725,032 B1) in view of Lozano et al. (US 5,982,869).

Regarding **claim 1**, Sheridan et al. (Sheridan) teaches a method of formatting data for

populating a telecommunications switch, comprising the steps of downloading output

formatted data from switch (the user work station 304 enters new configuration data, of the

formatting data, for a component of the switching unit 216, and transmitting configuration

data in HTML page to cell configuration system 302, for populating a switch; the cell

configuration system 302 processing the received configuration data signal, saving the

configuration data, and reconfiguring the switching unit 216 according to the received

specified configuration data from work station 304, col. 5, line 61 to col. 6, line 6; the cell site

108 comprised a switch 204, Fig. 2, col. 3, lines 37- 48, abstract, Fig. 9, Fig. 15-24; the

downloading by opening browser 314 on work station 304, for receiving configuration data in

graphic representation of the components belongs to cell site 108, col. 5, lines 51-60), the

editing the input formatted data (the navigation module 702 has screen, graphic

representation of the cell components, to allow user to select the components to generate

new configuration data, col. 8, line 53 to col. 9, line 18; the reconfiguring the switch

according to the parameters specified in the configuration data, col. 6, lines 3-6), the

transmitting the input formatted data to the switch and populating the switch with the input formatted data (the work station 304 transmits configuration data to cell site 108 for re-configuration of the switching unit 216 according to the parameter specified in the configuration data, col. 5, line 61 to col. 6, line 6). Sheridan fails to teach the converting the output formatted data into input formatted data acceptable for input to the switch, editing the input formatted data, although Sheridan teaches the cell configuration system 302 can format data for storing in database (col. 4, lines 24-29), the reformatting when configuration error occurs for rouging associated with DS0, DS1 (col. 7, lines 24-30). However, Lozano et al. (Lozano) teaches the converting the output formatted data into input formatted data acceptable for input to the switch (the converting format of routing table for plurality of switches, col. 2, line 8-17, col. 14, line 61 to col. 15, line 4; the converting, automatically configuring the call routing for international calls by providing a set of routing table to the switches, col. 1, line 61 to col. 2, line 7; the downloading routing table into each switch in col. 4, lines 57-67;the different class of the switches, class 1-5, col. 3 line 19 to col. 4, line 9; the commSHIP software for uploading, downloading routing table to switch in col. 11, line 54 to col. 13, line 47, Fig. 1-9; the adding, changing, deleting routing data in co.. 12, lines 10-25). Lozano teaches an improved technique for routing telephone calls for different countries, by flexibly reconfiguring the routing table in a switch (col. 1, lines 15-57). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Sheridan with Lozano's converting the format of the routing table for reconfiguring a switch, such that the telephone calls could be flexibly routed to the other counties.

Regarding **claim 2**, Sheridan teaches the step of opening a link between a first computer system (304) and the switch (the switch 216 in cell site 108, the opening link in col. 5, lines

11-21; col. 5, lines 51-54), and transmitting the input formatted data to the switch via the link between the first computer and the switch (the work station 304 receiving the configuration data in graphical representation for the component in cell site 108, for user to enter new configuration, col. 5, line 54 to col. 6, line 6).

Regarding **claim 3**, Sheridan teaches the opening a telenet session a the first computing system (the opening a browser 314 on work station 304 in col. 5, lines 51-54) and establishing a communications link for transmitting data to and from the first computer system and the switch (the work station 304 establish connection with cell configuration system 302 for receiving configuration components of the cell site 108 in graphical representation, col. 5, lines 11-21; col. 5, lines 36-60).

Regarding **claim 4**, Sheridan teaches the steps of launching a data formatting program on the first computer system (the opening browser 314-316 in col. 5, lines 11-21, the graphical representation in col. 5, lines 51-54) and opening a graphic user interface for receiving downloaded output formatted data to switch (the graphical representation on work station 304 col. 5, lines 51-60; the user graphical display interface in col. 4, line 42 to col. 5, line 3), for reconfiguring, formatting, the switch components.

Regarding **claim 5**, Lozano teaches the editing the input formatted data including adding new data to the input formatted data according to the format of the input formatted data (the CommSHIP 706 for managing switches 714-720, by adding, changing, deleting routing data, col. 12, lines 11-25).

Regarding **claim 6**, Lozano teaches the step of deleting data from input formatted data (col. 12, lines 11-25).

Regarding **claim 7**, Lozano teaches the step of transmitting the input formatted data to a

second switch (the transmitting reformatted unique routing table to each switch, for the

second switch, col. 15, lines 34-44).

Regarding **claim 8**, Lozano teaches the transmitting the input formatted data to a plurality of

switches (the transmitting reformatted unique routing table to each switch, for the plurality of

switches, col. 15, lines 34-44; plurality of switches in col. 6, line 23 to col. 7, line 19).

Regarding **claim 9**, Lozano teaches the step for populating a second switch with the input

formatted data (the populating routing table to second switch, by transmitting reformatted

routing table to each unique switch, col. 4, lines 57-63; col. 15, lines 34-44).

Regarding **claim 10**, Lozano teaches the step of populating a plurality of switches with the

input formatted data (the reformatting routing table for each unique switch, col. 4, lines 57-

63; col. 15, lines 34-44, for each particular, plurality of switches, col. 6, line 23 to col. 7, line

19).

Regarding **claim 11**, Lozano teaches the new data is NPA-NXXX data (the routing of call

connection based on the NXXX 206 for the identified local central office (col. 4, lines 19-42).

Regarding **claim 12**, Lozano teaches the data including the routing information for call

processing (the reformatted routing table for plurality of unique switches, col. 4, lines 57-63;

col. 15, lines 34-44).

Regarding **claim 13**, Sheridan teaches a method of formatting data for populating a wireless

telecommunications switch (Fig. 10, switch 1004 for wireless communication in col. 12, line

22 to col. 13, line17), with roaming information for roaming wireless telephone (the

configuration module to enable entry of new configuration data for the remote cell site, for

the roaming user in a wireless system in col. 23, lines 33-47; col. 24, lines 51-64; col. 25,

lines 43-54), entering communication link data for establishing roaming service on roaming

wireless telecommunication switch (the switch selection and configuration in Fig. 13 for

configuring cell site 108 in Fig. 10 in col. 15, lines 13-20, the reconfiguring of the switch from

switch selection and configuration 1310 in col. 15, line 49 to col. 16, line 23), the editing the

input formatted data (the navigation module 702 has screen, graphic representation of the

cell components, to allow user to select the components to generate new configuration data,

col. 8, line 53 to col. 9, line 18; the reconfiguring the switch according to the parameters

specified in the configuration data, col. 6, lines 3-6), the transmitting the input formatted data

to the switch (the work station 304 transmits configuration data to cell site 108 for re-

configuration of the switching unit 216 according to the parameter specified in the

configuration data, col. 5, line 61 to col. 6, line 6). Sheridan fails to teach the converting the

output formatted data into input formatted data acceptable for input to the switch, editing the

input formatted data, although Sheridan teaches the cell configuration system 302 can

format data for storing in database (col. 4, lines 24-29), the reformatting when configuration

error occurs for rouging associated with DS0, DS1 (col. 7, lines 24-30). However, Lozano et

al. (Lozano) teaches the converting the output formatted data into input formatted data

acceptable for input to the switch (the converting format of routing table for plurality of

switches, col. 2, line 8-17, col. 14, line 61 to col. 15, line 4; the converting, automatically

configuring the call routing for international calls by providing a set of routing table to the

switches, col. 1, line 61 to col. 2, line 7; the downloading routing table into each switch in

col. 4, lines 57-67;the different class of the switches, class 1-5, col. 3 line 19 to col. 4, line 9;

the commSHIP software for uploading, downloading routing table to switch in col. 11, line 54

to col. 13, line 47, Fig. 1-9; the adding, changing, deleting routing data in co.. 12, lines 10-

25). Lozano teaches an improved technique for routing telephone calls for different

countries, by flexibly reconfiguring the routing table in a switch (col. 1, lines 15-57).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Sheridan with Lozano's converting the format of the routing table for reconfiguring a switch, such that the telephone calls could be flexibly routed to the other counties.

Regarding **claim 16**, Sheridan teaches a method of formatting data for populating a telecommunications switch, comprising a data communication program (browser 314) operative to downloading output formatted data from switch (the browser 314 receiving graphical representation of cell site component, downloaded from cell configuration 302, for reconfiguration in col. 5, line 51 to col. 6, line 6), to copy the output formatted data to the graphic user interface of a switch script building program (the user graphic interface for configuring switch components in col. 4, line 30 to col. 5, line 21), to allow editing the input formatted data, to copy the input formatted data into data communication program (the navigation module 702 has screen, graphic representation of the cell components, to allow user to select the components to generate new configuration data, col. 8, line 53 to col. 9, line 18; the reconfiguring the switch according to the parameters specified in the configuration data, col. 6, lines 3-6), the data communication program further operative to transmitting the input formatted data to the switch and to populate the switch with the input formatted data (the work station 304 transmits configuration data to cell site 108 for re-configuration of the switching unit 216 according to the parameter specified in the configuration data, col. 5, line 61 to col. 6, line 6). Sheridan fails to teach the converting the output formatted data into input formatted data acceptable for input to the switch, editing the input formatted data, although Sheridan teaches the cell configuration system 302 can format data for storing in database (col. 4, lines 24-29), the reformatting when configuration error occurs for rouging associated with DS0, DS1 (col. 7, lines 24-30). However, Lozano et

al. (Lozano) teaches the converting the output formatted data into input formatted data

acceptable for input to the switch (the converting format of routing table for plurality of

switches, col. 2, line 8-17, col. 14, line 61 to col. 15, line 4; the converting, automatically

configuring the call routing for international calls by providing a set of routing table to the

switches, col. 1, line 61 to col. 2, line 7; the downloading routing table into each switch in

col. 4, lines 57-67;the different class of the switches, class 1-5, col. 3 line 19 to col. 4, line 9;

the CommSHIP software for uploading, downloading routing table to switch in col. 11, line

54 to col. 13, line 47, Fig. 1-9; the adding, changing, deleting routing data in co.. 12, lines

10-25). Lozano teaches an improved technique for routing telephone calls for different

countries, by flexibly reconfiguring the routing table in a switch (col. 1, lines 15-57).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of

invention to modify Sheridan with Lozano's converting the format of the routing table for

reconfiguring a switch, such that the telephone calls could be flexibly routed to the other

counties.

Regarding **claim 17**, Sheridan teaches the opening a telenet session a the first computing

system (the opening a browser 314 on work station 304 in col. 5, lines 51-54) and

establishing a communications link for transmitting data to and from the first computer

system and the switch (the work station 304 establish connection with cell configuration

system 302 for receiving configuration components of the cell site 108 in graphical

representation, col. 5, lines 11-21; col. 5, lines 36-60).

Regarding **claim 18**, Sheridan teaches a method of formatting data for populating a

telecommunications switch, comprising the steps of downloading output formatted data from

switch launching a data formatted program, copying the output formatted data into graphicial

user interface (the downloading by opening data formatted program browser 314 on work

station 304, for receiving configuration data in graphic representation of the components

belongs to cell site 108, col. 5, lines 51-60), the opening a graphical user interface for

receiving downloaded output formatted data from the switch (the user interface for receiving

configuration data from switch 216 in cell site 108 in col. 4, line 15 to col. 5, line 21), the

editing the input formatted data (the navigation module 702 has screen, graphic

representation of the cell components, to allow user to select the components to generate

new configuration data, col. 8, line 53 to col. 9, line 18; the reconfiguring the switch

according to the parameters specified in the configuration data, col. 6, lines 3-6), the

transmitting the input formatted data to the switch and populating the switch with the input

formatted data (the work station 304 transmits configuration data to cell site 108 for re-

configuration of the switching unit 216 according to the parameter specified in the

configuration data, col. 5, line 61 to col. 6, line 6). Sheridan fails to teach the converting the

output formatted data into input formatted data acceptable for input to the switch, editing the

input formatted data, although Sheridan teaches the cell configuration system 302 can

format data for storing in database (col. 4, lines 24-29), the reformatting when configuration

error occurs for rouging associated with DS0, DS1 (col. 7, lines 24-30). However, Lozano et

al. (Lozano) teaches the converting the output formatted data into input formatted data

acceptable for input to the switch (the converting format of routing table for plurality of

switches, col. 2, line 8-17, col. 14, line 61 to col. 15, line 4; the converting, automatically

configuring the call routing for international calls by providing a set of routing table to the

switches, col. 1, line 61 to col. 2, line 7; the downloading routing table into each switch in

col. 4, lines 57-67;the different class of the switches, class 1-5, col. 3 line 19 to col. 4, line 9;

the commSHIP software for uploading, downloading routing table to switch in col. 11, line 54

to col. 13, line 47, Fig. 1-9; the adding, changing, deleting routing data in co.. 12, lines 10-

25). Lozano teaches an improved technique for routing telephone calls for different

countries, by flexibly reconfiguring the routing table in a switch (col. 1, lines 15-57).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of

invention to modify Sheridan with Lozano's converting the format of the routing table for

reconfiguring a switch, such that the telephone calls could be flexibly routed to the other

counties.

Regarding **claim 19**, Lozano teaches the editing the input formatted data including adding

new data to the input formatted data according to the format of the input formatted data (the

CommSHIP 706 for managing switches 714-720, by adding, changing, deleting routing data,

col. 12, lines 11-25).

Regarding **claim 20**, Lozano teaches the step of deleting data from input formatted data

(col. 12, lines 11-25).

Regarding **claim 21**, Lozano teaches the step of transmitting the input formatted data to a

second switch (the transmitting reformatted unique routing table to each switch, for the

second switch, col. 15, lines 34-44).

Regarding **claim 22**, Lozano teaches the transmitting the input formatted data to a plurality

of switches (the transmitting reformatted unique routing table to each switch, for the plurality

of switches, col. 15, lines 34-44; plurality of switches in col. 6, line 23 to col. 7, line 19).

2. Claims 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sheridan in

view of Lozano, and further in view of Amin et al. (Us 5,845,207).

Regarding **claim 14**, Sheridan teaches the transmitting the output formatted data to the

switch comprising downloading output formatted data on a roaming wireless communication

for populating at the switch, by converting the output format data of the wireless remote cell

site to user for reconfiguring of the cell site switch unit 216, as shown in claim 13 above. Sheridan and Lozano fail to teach the combining the input formatted data for the wireless telephone with the input formatted communication data. However, Amin et al. (Amin) teaches the second combined input formatted data to wireless communication network for routing call connection based on the received call code and augmenting information from a second telephone (abstract, Fig. Fig. 3C; col. 8, line 56 to col. 9, line 3), for combining the input formatted data from a wireless telephone. Amin teaches the call forwarding can be flexible according to the data profile from a second wireless telephone, for the speed dialing (col. 1, line 44 to col. 2, line 46). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Sheridan above with Amin's call routing based on the data received from second wireless telephone for speed dialing, such that the system could be upgraded by routing the call connection flexibly according to the data from a second telephone.

Regarding **claim 15**, Amin taught above the transmitting the input formatted data from wireless telephone (second combined input formatted data to wireless communication network for routing call connection based on the received call code and augmenting information from a second telephone (abstract, Fig. Fig. 3C; col. 8, line 56 to col. 9, line 3; for combining the input formatted data from a wireless telephone). Sheridan taught above the input formatted communication link data to the switch 216, and the populating the switch with the input formatted data from a wireless work station associated with a remote cell site; for the populating the switch with combing input formatted data for Amin's wireless telephone and Sheridan's input formatted communication link data of the work station.

Response to Arguments

3. Applicant's arguments with respect to claims 1-22 have been considered but are moot in

view of the new ground(s) of rejection.

Regarding applicant's amendment for the no teachings of the downloading, converting

output format data from a switch to input format data acceptable for input to the switch,

editing the input format data, transmitting the input format data to switch, and populating the

switch with the input format data, **Sheridan** teaches downloading output formatted data form

the switch (the cell configuration system 302 receives the switch configuration data from cell

site 108, and cell network management system CNMS contains the 302, col. 4, lines 20-29;

the cell configuration 302 receives switch configuration parameters from user work station

304-308, to configure switch in cell site 108, col. 4, lines 30-41 and col. 5, line 61 to col. 6,

line 6). Sheridan teaches roaming (the cellular, wireless, communication of cell site 106,

108, including roaming, col. 3, lines 14-25).

Lozano teaches the downloading output formatted routing data from a storage 814

generated by routing generator 802, for populating switches 816, 818 (Fig. 8, col. 12, lines

49-65). Lozano does teaches the **converting** the output formatted data to be the input

format data acceptable for tine input to the switch, the **populating** the switch with the input

formatted data (the routing table for switch is converted into understandable format with a

translator, before storing them, to populate the switch with the converted, translated, input

format, col. 2, lines 8-17; the translator is CommShip interface 706 for uploading switch

routing data from storage 814, convert the format to particular format for switch and

downloading to switch 816, 818, Fig. 8, col. 12, lines 32-35 and col. 12, line 66 to col. 13,

line 3; the reformatting received routing table, col. 14, lines 4-11). Lozano teaches the

editing the input formatted data (the Commship interface can add, change, delete routing

data, for uploading or downloading, col. 12, lines 15-25), the **transmitting** the input

formatted data to the switch (the downloading the translated particular format to switch 714

to 720, by CommShip interface, col. 12, lines 32-35, Fig. 8).

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy

as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS

from the mailing date of this action. In the event a first reply is filed within TWO MONTHS

of the mailing date of this final action and the advisory action is not mailed until after the end

of the THREE-MONTH shortened statutory period, then the shortened statutory period will

expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Charles Chow whose telephone number is (571) 272-7889. The

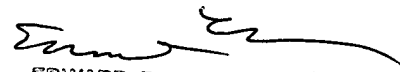examiner can normally be reached on 8:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Edward Urban can be reached on (571) 272-7899. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306. Information

regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be

obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Charles Chow $C.C.$

April 22, 2005.

EDWARD F. URBAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600